SPYWOLF

Security Audit Report

Completed on

June 9, 2023

OVERVIEW

This audit has been prepared for **GodPepeAI** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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GodPepeAI

PROJECT DESCRIPTION

According to their whitepaper:

Introducing GodPepeAI: the meme that needs no introduction, but we'll give him one anyway, because he's just that good.

May I present to you the one and only GodPepeAI! The legendary meme that has been around for ages, and boy, does he have a bone to pick with all those fake Pepes out there.

Release Date: Presale starts in June, 2023

Category: Meme token

CONTRACT INFO

Token Name GodPepeAI	Symbol GPP
Contract Address 0xecdf3fF2141c005E7Aea18b376e8f0De9ABF0876	
Network Ethereum	Language Solidity
Deployment Date Jun 07, 2023	Verified? Yes
Total Supply 10,000,000,000	Status Not launched

TAXES

Buy Tax	Sell Tax
1%	5%

*Taxes can be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

TOKEN TRANSFERS STATS

Transfer Count	8
Uniq Senders	2
Uniq Receivers	8
Total Amount	18898279978.388798 GPP
Median Transfer Amount	150000000 GPP
Average Transfer Amount	2362284997.2985997 GPP
First transfer date	2023-06-07
Last transfer date	2023-06-08
Days token transferred	2

SMART CONTRACT STATS

Calls Count	18
External calls	11
Internal calls	7
Transactions count	13
Uniq Callers	3
Days contract called	2
Last transaction time	2023-06-08 14:12:23 UTC
Created	2023-06-07 03:31:47 UTC
Create TX	0x47154b10e67ef938803361d669db2125ac730e4a975f1d52183e378a2bf35803
Creator	0x11485fa26bc460c48f4e21ac78b4831a5606aeef

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠ High Risk

Owner can blacklist address, making it impossible to sell.

```
function updateIsBl(address account, bool state) external onlyOwner{
    require(account != pair , "Pair");
    require(account != address(router) , "Router");
    _isBlacklisted[account] = state;
}

function bulkIsBl(address[] memory accounts, bool state) external onlyOwner{

    for(uint256 i =0; i < accounts.length; i++){
        require(accounts[i] != pair , "Pair");
        require(accounts[i] != address(router) , "Router");
        _isBlacklisted[accounts[i]] = state;

    }
}

function _transfer(address from, address to, uint256 amount) private {
.....................
if(!_isExcludedFromFee[from] && !_isExcludedFromFee[to]){
    require(!_isBlacklisted[from] && !_isBlacklisted[to], "Bot");
}
.....................
}
```

- Recommendation:
  - Considered as good practice is blacklisting to be automated for short period of time after contract's launch, serving as bot protection.

FOUND THREATS

⚠ Medium Risk

Owner can change autoswap settings.
If contract's token balances are 0 and swapTokensAtAmount is set to 0, contract will halt on sell and selling will fail for all users not excluded from fees.

```
function updateSwapTokensAtAmount(uint256 amount) external onlyOwner{
    swapTokensAtAmount = amount * 10**_decimals;
}

function _transfer(address from, address to, uint256 amount) private {
.....................
bool canSwap = balanceOf(address(this)) >= swapTokensAtAmount;
if(canSwap && from != pair && !_isExcludedFromFee[from] && !_isExcludedFromFee[to] && !swapping){
    if(to == pair)  swapAndLiquify(swapTokensAtAmount, sellTaxes);
    else  swapAndLiquify(swapTokensAtAmount, taxes);
}
.....................
}
```

- Recommendation:
  - Ensure that swapTokensAtAmount state variable's value is always above 1 token (consider token decimals).

Informational

Owner can withdraw any tokens from the contract.
When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function rescueBNB(uint256 weiAmount) external onlyOwner{
    require(address(this).balance >= weiAmount, "iEb");
    payable(msg.sender).transfer(weiAmount);
}

function rescueAnyBEP20Tokens(address _tokenAddr,
address _to, uint _amount) public onlyOwner {
    IERC20(_tokenAddr).transfer(_to, _amount);
}
```

Owner can exclude address from rewards.

```
function excludeFromReward(address account) public onlyOwner() {
    require(!_isExcluded[account], "err");
    if(_rOwned[account] > 0) {
        _tOwned[account] = tokenFromReflection(_rOwned[account]);
    }
    _isExcluded[account] = true;
    _excluded.push(account);
}
```

Owner can exclude address from fees.
When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = true;
}

function bulkExcludeFee(address[] memory accounts, bool state) external onlyOwner{
    for(uint256 i = 0; i < accounts.length; i++){
        _isExcludedFromFee[accounts[i]] = state;
    }
}
```

Informational

Owner can set max transaction limit but cannot lower it than 0.05% of total supply.

```
function updateMaxTxLimit(uint256 maxBuy, uint256 maxSell) external onlyOwner{
    require(maxBuy >= ((_tTotal/(10**decimals()))/2000) , "err");
    require(maxSell >= ((_tTotal/(10**decimals()))/2000) , "err");
    maxBuyLimit = maxBuy * 10**decimals();
    maxSellLimit = maxSell * 10**decimals();
}
```

Owner can set cooldown between sells up to 1 minute.

```
function updateCooldown(bool state, uint256 time) external onlyOwner{
    require(time <= 60  , "err");
    coolDownTime = time * 1 seconds;
    coolDownEnabled = state;
}

function _transfer(address from, address to, uint256 amount) private {
.....................
if(to == pair && !_isExcludedFromFee[to] && !_isExcludedFromFee[from] && !swapping){
    require(amount <= maxSellLimit, "err");

    if(coolDownEnabled){
        uint256 timePassed = block.timestamp - _lastSell[from];
        require(timePassed >= coolDownTime, "Cd");
        _lastSell[from] = block.timestamp;
    }
}
.....................
}
```

Informational

Owner can set buy taxes up to 1% and sell taxes up to 5%.
Combined buy+sell = 6%.
When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.
Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function setTaxes(uint256 _rfi, uint256 _marketing,
uint256 _liquidity, uint256 _dev) public onlyOwner {
    require((_rfi + _marketing + _liquidity + _dev) <= 1, "err");
    taxes = Taxes(_rfi,_marketing,_liquidity,_dev);
     emit FeesChanged();
}

function setSellTaxes(uint256 _rfi, uint256 _marketing,
uint256 _liquidity, uint256 _dev) public onlyOwner {
    require((_rfi + _marketing + _liquidity + _dev) <= 5, "err");
    sellTaxes = Taxes(_rfi,_marketing,_liquidity,_dev);
     emit FeesChanged();
}
```

Selling is forbidden for not excluded from fees addresses for the first 50 blocks after trading is enabled.

```
function _transfer(address from, address to, uint256 amount) private {
.....................
if(!_isExcludedFromFee[from] && !_isExcludedFromFee[to] && block.number <= genesis_block + 50) {
    require(to != pair, "Nosells50blocks");
}
.....................
}
```

RECOMMENDATIONS FOR

GOOD PRACTICES

1. Consider fundamental tradeoffs
2. Be attentive to blockchain properties
3. Ensure careful rollouts
4. Keep contracts simple
5. Stay up to date and track development

GodPepeAI

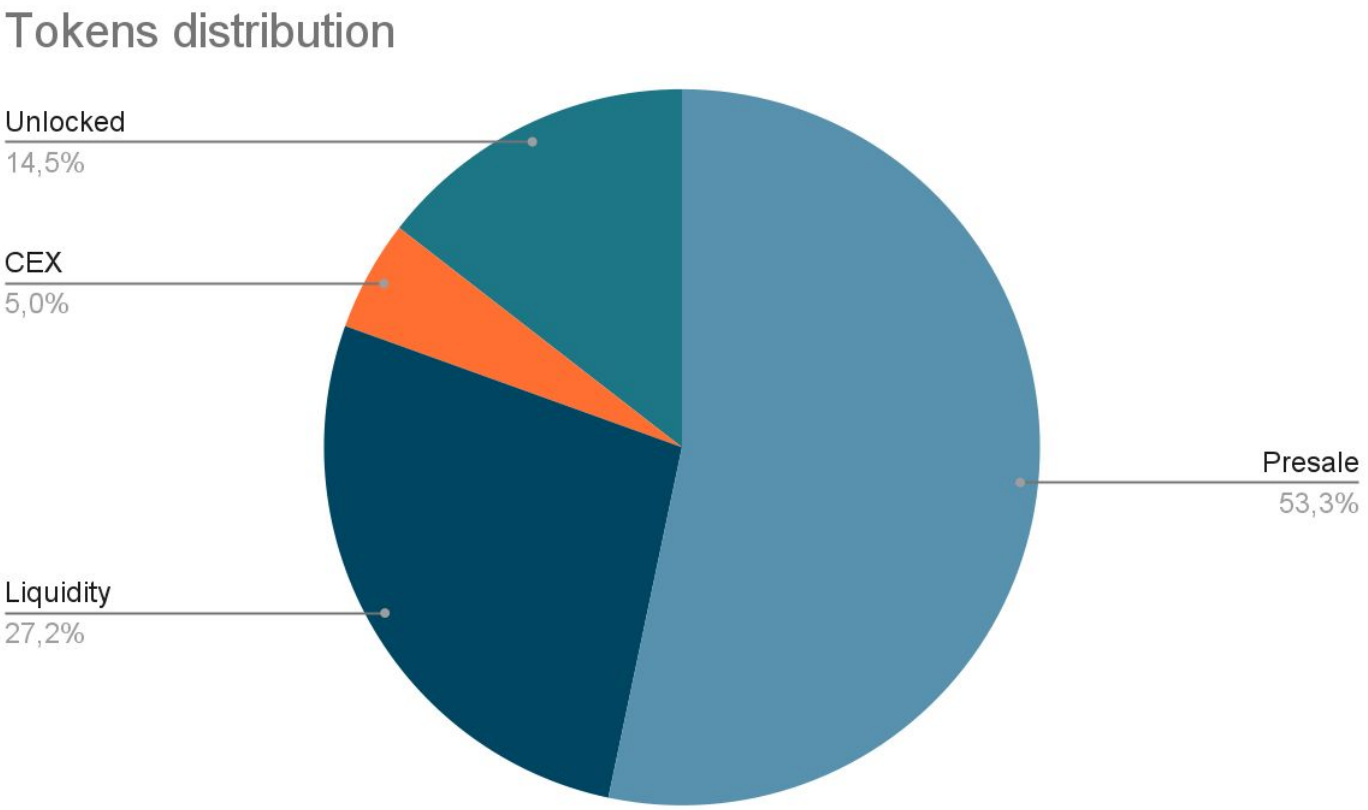
GOOD PRACTICES FOUND

- ✔ The owner cannot mint new tokens after deployment
- ✔ The owner cannot stop or pause the contract
- ✔ The owner can set a transaction limit, but can’t lower it than 0.05% of total supply

TOKENOMICS

The following tokenomics are based on Pinksale's presale page:

- 53.3% - Presale
- 27.2% - Liquidity
- 5% - CEX
- 14.5% - Unlocked



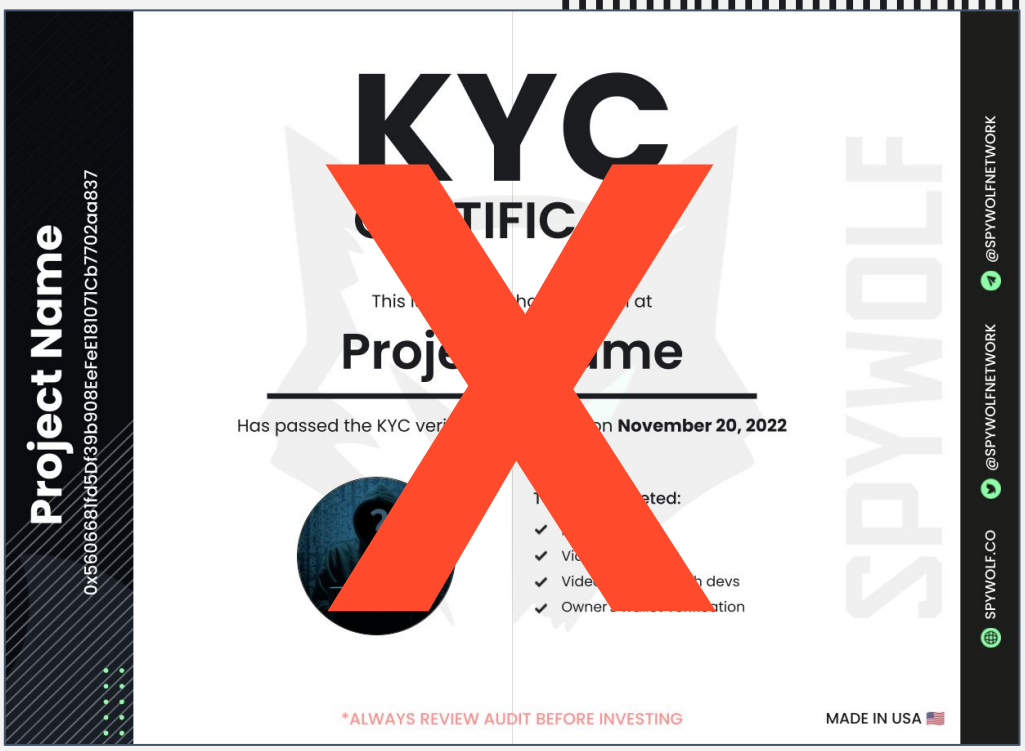
THE TEAM

⚠️ The team is annonymous

KYC INFORMATION

⚠️ No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.



WEBSITE

Website URL
https://godpepeai.tech/

Domain Registry
https://www.hostinger.com

Domain Expiration
2024-05-18

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

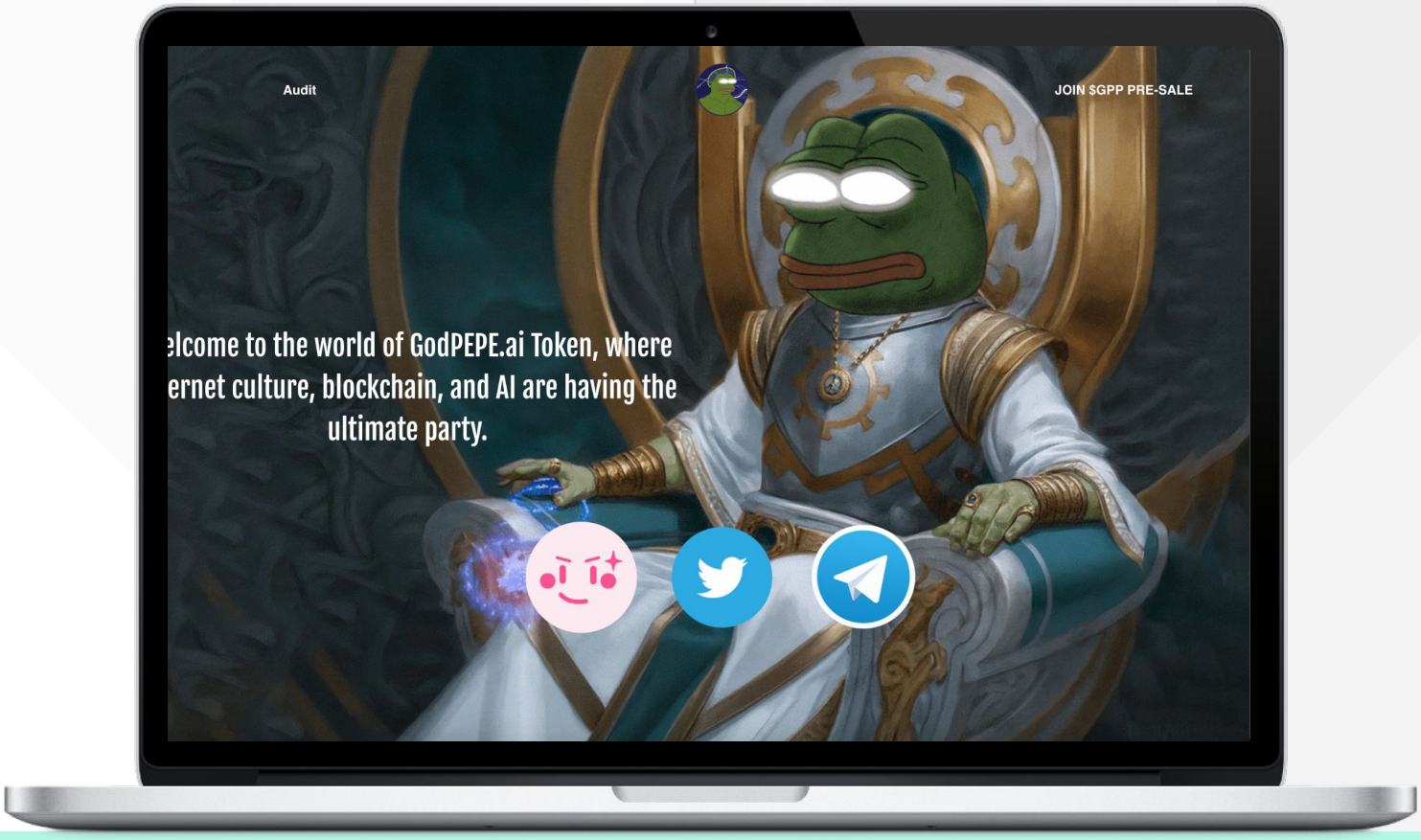
Design
Very nice design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
Well written, explanatory.

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes



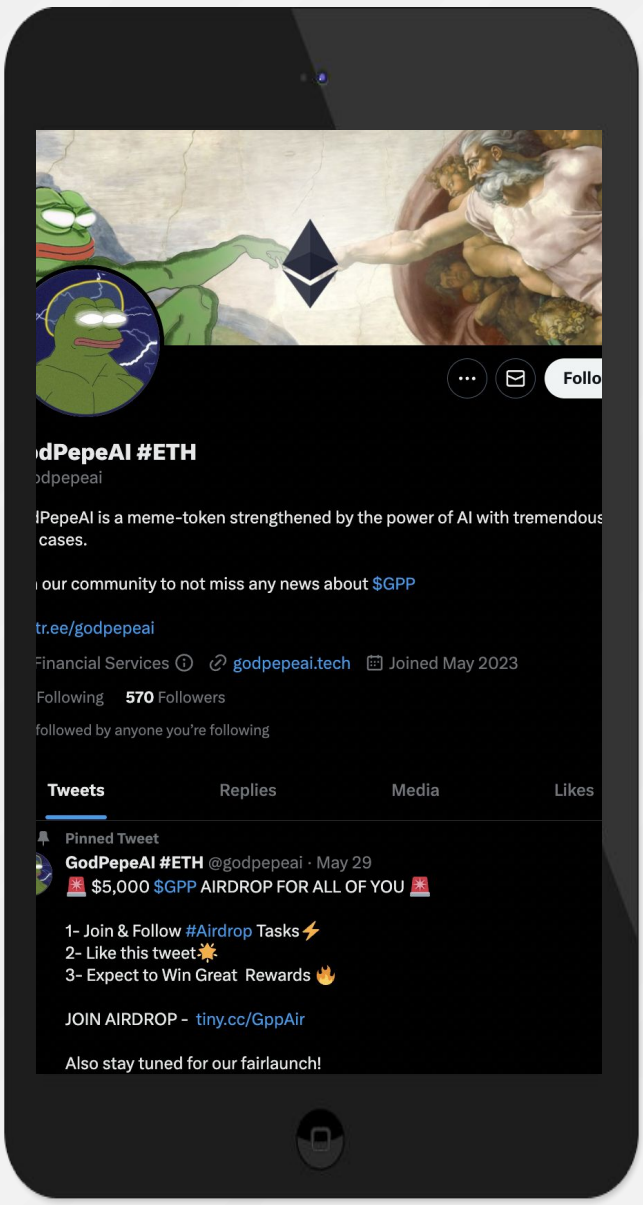
godpepeai.tech

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS

Project's social media pages are active



Twitter

@godpepeai

- 571 followers
- Active
- Posts frequently

Discord

- Not available

Telegram

@godpepeai

- 1 036 members
- Active users
- Active mods

Medium

- Not available

SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

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We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.